

Reg # 352-440

PM-25

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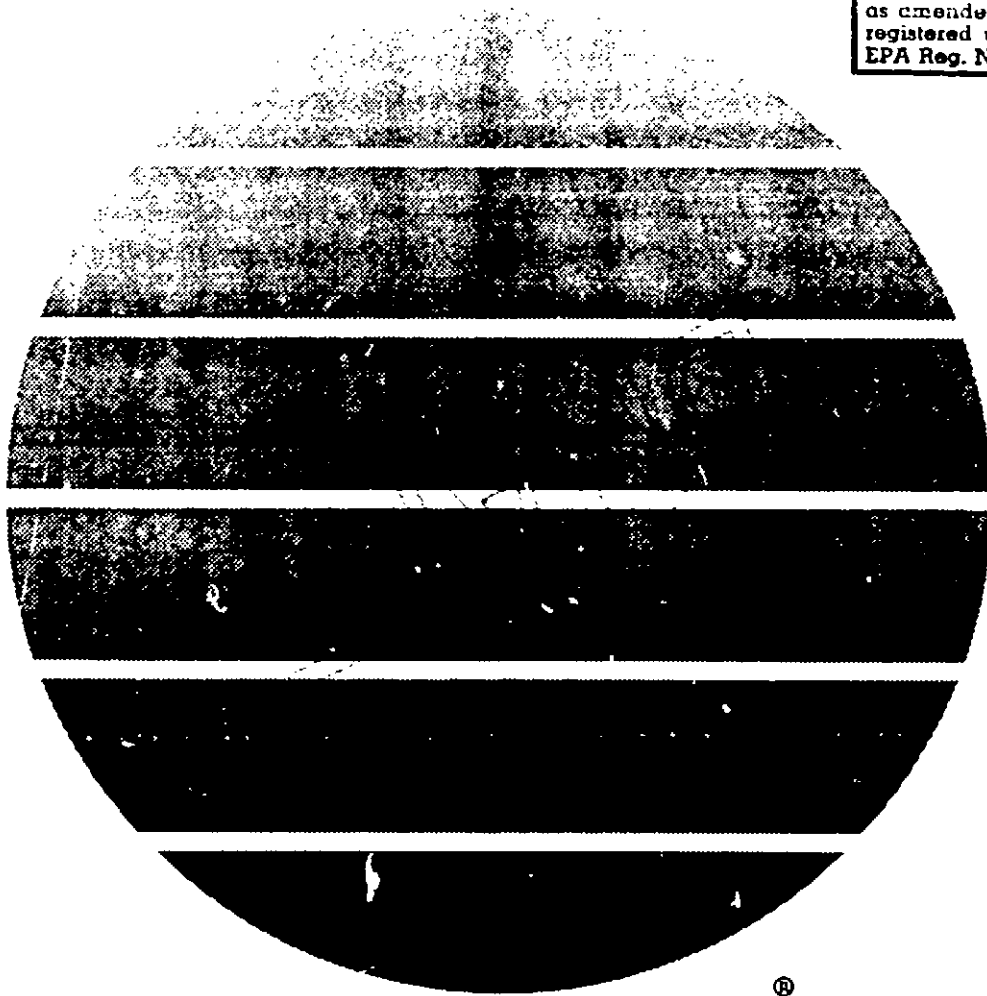
Kroyar[®] II DF

herbicide

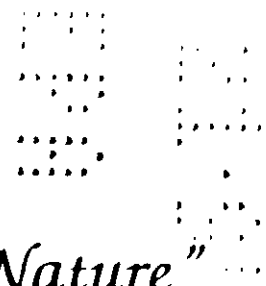
LEWIS

ACCEPTED
FEB 14 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 352-440



®



"..... A Growing Partnership With Nature"

135



KROVAR® II DF

294

HERBICIDE

DISPERSIBLE GRANULE

BY WEIGHT

ACTIVE INGREDIENTS	80%
Bromacil [5-bromo-3-(sec-butyl)-6-methyluracil]	53%
Ditron [3-(3,4-dichlorophenyl)-1,1-dimethylurea]	27%
INERT INGREDIENTS	20%
TOTAL	100%

EPA Reg. No. 352-440

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush with plenty of water. Call a physician if irritation persists.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

For medical emergencies involving this product, call toll free 1-800-441-3637.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! HARMFUL IF SWALLOWED. CAUSES MODERATE EYE INJURY.

Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing.

In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation persists.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

Bromacil is known to leach through soil and has been found in ground water as a result of normal field use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

IMPORTANT - Injury to or loss of desirable trees or other plants may result from failure to observe the following:

Do not apply (except as recommended for crop use), or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Do not use in home fruit plantings nor in citrus orchards interplanted to other trees or desirable plants. Prevent drift of dry powder or spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Thoroughly clean all traces of "Krovar" II DF from application equipment immediately after use. Flush tank, pump, hoses and "boom" with several changes of water after cleaning nozzle tips and screens (clean these parts separately).

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PESTICIDE HANDLING

- Loading site precautions and procedures:
- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.

GENERAL INFORMATION

Du Pont "Krovar" II DF Herbicide is a dry flowable granule to be mixed in water and applied as a spray for selective control of weeds in citrus and for non-crop weed control.

"Krovar" II DF controls certain perennial grasses and annual weeds.

Moisture is necessary to activate the herbicide; best results are obtained if treatment is made to moist soil, and moisture is supplied by rainfall or sprinkler irrigation within two weeks after application. The degree of control and duration of effect will vary with the amount applied, soil texture, rainfall and other conditions.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Waterproof gloves.
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Noncrop weed control is not within the scope of the Worker Protection Standard.

Du Pont "Krovar" II DF should be used only in accordance with recommendations on this label, or in separate published Du Pont recommendations available through local dealers.

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risk associated with such non-recommended use.

Do not apply this product through any type of irrigation system.

CITRUS

"Krovar" II DF Controls:

Annual Weeds

barnyard grass	nightshade (annual)
crabgrass	pigweed
Florida pusley	purslane
foxtail	ragweed
goosegrass	sandbur (sandspur)
lambsquarter	sowthistle
natalgrass (red top)	spanishneedles

Perennial Weeds (At maximum rates and repeat treatments)

balsamapple vine (seedlings)	milkweed vine (seedlings)
bermudagrass	guineagrass (partial control)

Apply any time of year provided overhead moisture (rainfall or sprinkler irrigation) is available to activate the herbicide, preferably just before or just after weeds have germinated.

Apply with a properly calibrated fixed-boom power sprayer as a band or broadcast treatment beneath and/or between trees. Use sufficient water (min. 30 gals. per acre) to obtain uniform coverage; avoid contact of foliage and fruit with spray or mist. Avoid overlapping, and shut off spray boom while starting, turning, slowing or stopping, or injury to trees may result. Continuous agitation in the spray tank is required to keep the material in suspension.

Best results are obtained if "Krovar" II DF is applied to bare ground. If vegetation is present at application, tank mixes with foliar active herbicides are recommended to control existing weeds (see tank-mixes below).

If dense populations of hard-to-kill species are present, control of these weeds prior to application to "Krovar" II DF is recommended.

Dosages are expressed as broadcast rates; for band treatment, use proportionately less.

Do not graze cattle in treated areas.

Temporary yellowing or vein clearing of citrus leaves may occur following treatment. Because injury to citrus trees may result, do not use on soils with less than 1% organic matter, poorly drained soils, gravelly soils, nor thinly covered or exposed subsoils; do not treat plants in irrigation furrows; do not treat diseased or stressed trees.

Do not use in citrus groves interplanted with other trees or desirable plants, or in home citrus plantings or in areas where roots of valuable plants or trees may extend as plant injury may result.

Do not replant treated areas to any crop within two years after last application as injury to subsequent crops may result, except that citrus trees may be planted one year after the last application.

TANK MIXTURES

"Krovar" II DF is recommended for use on citrus for weed control in tank mixtures with paraquat. For rates of the individual products, refer to the respective product label. Do not apply tank mixture to foliage or green wood as injury may result.

Arizona, California, Louisiana, Texas

(Do not use in Kern County, CA)

Trees Established Four Years or More

Perennial Weeds: For bermudagrass, nutsedge make a single application per year during the period from winter to early summer at the following rates:

Soil Texture	Lbs. Per Acre
Sand, loamy sand	4 to 6
Sandy loam	5 to 7
Silt loam, clay loam	6 to 8

Alternatively, make two applications of 3 to 4 lbs. per acre per year; apply in spring and summer.

Partial control of perennials usually occurs with a single treatment; repeat applications are required to control perennials.

Control may be improved by cultivation prior to treatment; otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced.

Annual Weeds: Apply 2 to 5 lbs. per acre using the lower rates on coarse soils; apply any time of year provided overhead moisture (rainfall or sprinkler irrigation) is available to activate the herbicide, preferably just before or just after weeds germinate.

Texas

Trees Established One to Four Years

Apply 3 to 6 lbs "Krovar" II DF per acre; for details on timing, equipment, spray volume and other use directions, refer to product label. Use the lower rate for 1 to 2 year old trees and the higher rate for trees more than 2 years old. A second application may be made if needed, but do not apply more than 8 lbs "Krovar" II DF per acre per year as injury to the trees may result.

Florida

~~Use only as a band application. Do not use "Trunk-to-Trunk".~~

Trees Established Less Than One Year

Apply 2 to 4 lbs "Krovar" II DF per treated acre as needed to maintain weed control. Do not apply at less than 60 day intervals; do not apply more than 6 lbs per treated acre during any 6 month period or more than 8 lbs per treated acre during the first year.

Trees Established One to Three Years

Apply 2 to 4 lbs "Krovar" II DF per treated acre as needed to maintain weed control. Do not exceed 8 lbs per treated acre per year.

Trees Established Three or More Years

East Coast/Flatwoods Areas - (low permeable soils)

- Apply 3 to 6 lbs "Krovar" II DF per treated acre, but do not apply more than 12 lbs per treated acre per year; 12 lbs "Krovar" II DF contains 6.4 lbs active bromacil.

- The maximum allowable is 6.4 lbs active (bromacil) per treated acre per year. The allowable amount is inclusive of all bromacil formulations use within one year.

The maximum allowable use rate for diuron is 9.6 lbs. per treated acre per year inclusive of all diuron formulations used within one year.

- Multiple applications may improve control of "hard-to-kill" species.

- Do not use more than 6.0 lbs per treated acre of "Krovar" II DF in any application. Do not use at less than 60 day intervals.

Ridge Areas - (highly permeable soils)

Apply 3 lbs "Krovar" II DF per treated acre; 3 lbs "Krovar" II DF contains 1.6 lbs active (bromacil).

The maximum allowable is 1.6 lbs active (bromacil) per treated acre per year. The allowable amount is inclusive of all bromacil formulations used within one year.

The maximum allowable use rate for diuron is 6.4 lbs. per treated acre per year inclusive of all diuron formulations used within one year.

Note: The maximum allowable use rate for the ridge areas (highly permeable soils) in Highlands County is 4.8 lbs. per treated acre per year. Inclusive of all diuron formulations.

Do not use more than 3.0 lbs per treated acre of "Krovar" II DF in any application. Do not apply "Krovar" II DF in less than 60 day intervals.

Tank Mixtures

Tank mixtures of "Krovar" II DF and paraquat are recommended for control of emerged weeds in citrus. For rates of individual products, refer to the respective product label. Do not apply tank mixture to foliage or green wood as injury may result.

SPRAY PREPARATION

MIXING IN WATER

Fill tank 1/2 full with water. Start agitation system, add "Krovar" II DF and continue adding water. Add separately each additional component of any tank-mix while adding water.

MIXING IN LIQUID FERTILIZER

A fertilizer solution may be used in the spray mixture. Small quantities should be tested for compatibility by the following procedures before full scale mixing.

1. Put 1 pint fertilizer solution in a quart jar.
2. Mix 2 teaspoons "Krovar" II DF with 2 tablespoons of water; mix thoroughly and add to fertilizer solution
3. Close jar and shake well.
4. If other herbicides are used in the mixture, premix 2 teaspoons of dry materials to 1 teaspoon of liquids with 2 tablespoons of water; add to "Krovar" II DF fertilizer solution mixture
5. Close jar and shake well

4 3 4

- 6. Watch mixture for several seconds; check again in 30 minutes.
- 7. If mixture does not separate, foam, gel or become lumpy, it may be used.

Provided the above procedure shows the mixture to compatible, prepare the tank mixture as follows: Add the fertilizer solution to the spray tank first; mix the required amount of "Krovar" II DF with water to form a slurry, with the agitator running, slowly add the slurry and mix thoroughly. For other herbicides, follow directions above. When tank mixing with other herbicides, all applicable directions, restrictions and precautions for the additional herbicides are also to be followed.

Thoroughly reagitrate before using if allowed to settle.

NON-CROP WEED CONTROL

For short-term control of annual weeds on non-cropland areas such as roadsides, storage areas, and plant sites, apply 2 to 5 lbs. per acre in 40 to 100 gals. water. For extended control of annuals and partial control of perennials such as bermudagrass and nutsedge, apply 6 to 14 lbs. per acre. For control of hard-to-kill perennials such as bermudagrass, bouncingbet, dogbane, johnsongrass, nutsedge, and saltgrass, apply 15 to 23 lbs per acre.

Use the higher levels of dosage rates on adsorptive soils (high in organic matter or carbon). Best results occur when application is made just before weed emergence or in early stages of weed growth.

Retreatment: Apply 2 to 5 lbs per acre when annual weeds and grasses reappear on sites where weed growth has been controlled.

Small Areas: 1/4 cupful of "Krovar" II DF per 200 sq. ft. is approximately 15 lbs. per acre.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

~~DU PONT 112394~~

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

PRODUCT DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty box into application equipment. Then dispose of empty box in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO BUYER: Purchase of this material does not confer any rights under patents of countries outside of the United States.

